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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/821,465	BURKLAND ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Linh V. Nguyen	2819	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2/22/05.
2. ☒ The allowed claim(s) is/are 4-9, 11, 12, 13, 16 – 18 and 20.
3. ☒ The drawings filed on 09 April 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |

### **DETAILED ACTION**

1. This office action is in response to applicant 's amendment filed on 02/22/05. Claims 1 – 3, 10, 14; 15 and 19 have been canceled. Claims 4, 11, 12, 13, 16 – 18 and 20 have been amended. Claims 4 - 9, 11, 12, 13, 16 – 18 and 20 are pending on this application.

### ***Allowable Subject Matter***

2. Claims 4 - 9, 11, 12, 13, 16 – 18 and 20, are allowed.
3. The following is an examiner's statement of reasons for allowance:

With respect to claim 4, in addition to other elements in the claim, the prior art does not teach or suggest the transfer function of digital process unit having a first integrator communicatively coupled to receive the digital data stream from the converter for generating a first digital output signal; and a second integrator communicatively coupled to receive the first digital output signal from the first integrator wherein the second integrator generates a second digital output signal.

With respect to claim 11, in addition to other element in the claim, the prior art does not teach the analog feedback module having a second digital to analog converter for converting a second digital output signal to a second analog feedback signal coupled to the input of the signal combiner.

With respect to claim 12, in addition to other element in the claim, the prior art does not teach the analog feedback module having a resistant across the analog

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feedback signal is transferred from digital to analog converter to the at least one input signal combiner.

With respect to claim 16, in addition to other element in the claim, the prior art does not teach the first digital transfer function is a second order bandpass filter transfer function

With respect to claim 17, in addition to other element in the claim, the prior art does not teach the second digital transfer function to the is a low-pass filter transfer function.

With respect to claim 18, in addition to other element in the claim, the prior art does not teach generating the first digital output signal as a first carry out signal in two's complement form and generating the second digital output signal as a second carry out signal in two's complement form.

With respect to claim 20, in addition to other element in the claim, the prior art does not teach means for generating first and second analog feedback signals; wherein the first and second analog feedback signals is feed to the inputs of the means for generate the analog signal

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Prior Arts***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

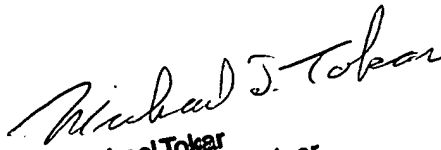
***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh Van Nguyen whose telephone number is (571) 272-1810. The examiner can normally be reached from 8:30 – 5:00 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Michael Tokar can be reached at (571) 272-1812. The fax phone numbers for the organization where this application or proceeding is assigned are (703-872-9306) for regular communications and (703-872-9306) for After Final communications.

LVN

3/10/05

  
**Michael Tokar**  
Supervisory Patent Examiner  
Technology Center 2800